

1 **In the Claims**

2 Claims 1 and 10 are amended.

3 Claims 1-20 remain in the application and are listed as follows:

4  
5 1. (Currently Amended) A method of processing media content, the  
6 method comprising:

7 generating a motion compensated prediction of a region of media content;

8 receiving an indication of whether there are first and second quantities of  
9 residual samples remaining for refining the prediction, on a per-region basis,  
10 wherein the indication comprises one or more values associated with one or more  
11 picture-level parameters; and

12 adding of the first quantity of residual samples to the prediction to generate  
13 a refined prediction value, when so indicated; and

14 subtracting the second quantity of residual samples from the refined  
15 prediction value to generate a final representation, when so indicated.

16  
17 2. (Original) A method according to claim 1, wherein the first and  
18 second residual samples are eight-bit signed samples.

19  
20 3. (Original) A method according to claim 1, further comprising  
21 performing an inverse discrete cosine transformation of a decoded transform-  
22 domain representation of a total residual difference to be added to the motion  
23 compensated prediction for the region of media content.

1           4.     (Original) A method according to claim 1, wherein the encoded  
2 region of media content is a block or macroblock of a frame of received media  
3 content.

4  
5           5.     (Original) A method according to claim 1, wherein generating a  
6 prediction of media content is performed by a graphics processing accelerator  
7 under the control of a decoder application that is executing on a host computing  
8 system.

9  
10          6.     (Original) A method according to claim 1, further comprising:  
11         sending any prediction control information necessary for generation of a  
12 motion compensated predicted region to an accelerator,  
13         sending an indication to the accelerator of whether the first and second  
14 quantities of residual samples are to be applied, and  
15         sending the first and second sets of residual samples to the accelerator when  
16 indicated;  
17         performing subsequent processing and/or rendering at the accelerator.

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19          7.     (Original) A method according to claim 1, wherein the region is a  
20 block or macroblock of a frame of media content.

21  
22          8.     (Original) A storage medium comprising a plurality of executable  
23 instructions including a subset of which that, when executed, implement a method  
24 according to claim 1.  
25

1           9.     (Original) A computing system comprising:  
2           a storage medium including a plurality of executable instructions; and  
3           an execution unit, coupled to the storage medium, to execute at least a  
4     subset of the plurality of executable instructions to implement a method according  
5     to claim 1.

6  
7           10.   (Currently Amended) A storage medium comprising a plurality of  
8     executable instructions which, when executed, implement a decoder of media  
9     content to generate a motion compensated prediction of at least a region of media  
10    content, to receive an indication of one or more sets of samples of residual  
11    information to further refine the prediction, wherein the indication comprises one  
12    or more values associated with one or more picture-level parameters, and to add a  
13    first set of such samples to the prediction to generate a modified prediction, if  
14    indicated, and to subtract a second set of such samples from the modified  
15    prediction to generate a final motion compensated prediction of the region, if  
16    indicated.

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18          11.   (Original) A storage medium according to claim 10, wherein the  
19     executable instructions on the storage medium cause prediction control  
20     information necessary for generation of the motion compensated prediction and  
21     the indications of whether the first and/or second quantity of residual samples are  
22     to be applied and the actual first and second sets of residual samples to be sent to a  
23     communicatively coupled accelerator for subsequent processing and/or rendering.

1           12.   (Original) A storage medium according to claim 10, wherein the  
2 region of media content is a block or macroblock of a frame.

3  
4           13.   (Original) A storage medium according to claim 10, wherein the first  
5 and second residual samples are eight-bit signed samples.

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7           14.   (Original) A storage medium according to claim 10, further  
8 comprising performing an inverse discrete cosine transformation of a decoded  
9 transform-domain representation of a total residual difference to be added to the  
10 motion compensated prediction for the region of media content.

11  
12           15.   (Original) A computing system comprising:  
13 a decoder application to receive a region of media content and control  
14 generation of decoded media content; and  
15 an application program interface (API), communicatively coupling the  
16 decoder application with a hardware accelerator, wherein if the API receives an  
17 indication of one or more sets of residual samples, the first set of samples is added  
18 to a motion compensated prediction to generate a refinement of a prediction value,  
19 when so indicated, and a second set of samples is subtracted from the refined  
20 prediction value to generate a final representation, when so indicated.

1           16.   (Original) A computing system according to claim 15, further  
2 comprising:

3           an accelerator, communicatively coupled to the decoder application via the  
4 API, to receive control and residual data information for subsequent processing  
5 and/or rendering.

6  
7           17.   (Original) A computing system according to claim 15, wherein the  
8 decoder application generates the residual data samples utilizing an inverse  
9 discrete cosine transformation of a decoded transform-domain representation of a  
10 total residual difference to be added to the motion compensated prediction for the  
11 region of media content.

12  
13           18.   (Original) A computing system according to claim 15, wherein the  
14 region of media content is a block or macroblock of a frame.

15  
16           19.   (Original) A computing system according to claim 15, further  
17 comprising:

18           a storage medium comprising a plurality of executable instructions; and  
19           an execution unit, coupled to the storage medium, to execute at least a  
20 subset of the plurality of executable instructions to implement the API.

21  
22           20.   (Original) A computing system according to claim 19, wherein the  
23 execution unit executes at least a subset of the plurality of executable instructions  
24 to implement the decoder application.